



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 1 & 6	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	R	R	DW	DW	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 ALT & 6	G	G	G	G	R	R	FL-WK	FL-WK	DW	DW	DW	DW
PED CLEAR	G	G	G	G	R	R	FL-DW	FL-DW	DW	DW	DW	DW
2 ALT & 6 CHANGE	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	G	G	DW	DW	FL-WK	FL-WK	FL-WK	FL-WK
PED CLEAR	R	R	R	R	G	G	DW	DW	FL-DW	FL-DW	FL-DW	FL-DW
4 ALT. CHANGE	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW
PRE-EMPTION	G	G	G	G	R	R	DW	DW	DW	DW	DW	DW
CHANGE	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	DARK	DARK	DARK	DARK	DARK	DARK

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	— A —
ELECTRICAL	— E —
TELEPHONE	— T —
GAS	— G —
SEWER	— S —
WATER	— W —
CABLE TV	— TV —

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF CHERRY LANE AND FOURTH STREET IN PRINCE GEORGE'S COUNTY. CHERRY LANE IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A FOUR-PHASE FULLY-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR EASTBOUND CHERRY LANE AND ALTERNATE PEDESTRIAN PHASES ACROSS THE NORTH, EAST AND WEST LEGS OF THE INTERSECTION. THE PHASING WILL BE CHANGED TO INCLUDE EASTBOUND AND WESTBOUND CHERRY LANE PRE-EMPTION PHASES.

PROJECT CONSTRUCTION

WORK WILL INCLUDE INSTALLING AN OPTICOM PRE-EMPTION SYSTEM.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9001	1 EA	DETECTOR RACK POWER SUPPLY
9016	3 EA	FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
9046	1 EA	DETECTOR RACK RETROFIT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
8059	1 EA	FURNISH AND INSTALL DISCRIMINATOR MODULE, 4 CHANNEL NO. 76
8061	2 EA	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8079	370 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE

- GENERAL NOTES**
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
 - INSTALL 4-CONDUCTOR OPTICOM CABLE FROM THE PROPOSED OPTICOM DETECTOR EYES, ALONG THE SPAN WIRE, DOWN THE POLE, THROUGH THE EXISTING CONDUIT TO THE BASE MOUNTED CABINET.
 - THE QUANTITIES SHOWN ON THIS SHEET ARE FOR THIS INTERSECTION ONLY. QUANTITIES FOR THE ENTIRE PROJECT ARE SUMMARIZED ON THE GENERAL INFORMATION SHEET.

- CONSTRUCTION DETAILS**
- A. INSTALL OPTICOM DETECTOR EYE ON EXISTING SPAN WIRE AS SHOWN
- B. INSTALL DISCRIMINATOR MODULE, DETECTOR RACK RETROFIT, AND LOOP DETECTOR AMPLIFIERS INTO EXISTING BASE MOUNTED CONTROLLER

TRAFFIC CONCEPTS, INC.

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DATE	REVISION
11-15-04	INSTALL OPTICOM PRE-EMPTION
PROJ. MGR.	
DESIGN J.B.	
DRAWN A.C.	
CHECKED J.C.K.	

CITY OF LAUREL

TRAFFIC SIGNALIZATION
CHERRY LANE AND FOURTH STREET
PRINCE GEORGE'S COUNTY

DRAWING NO.	SCALE 1" = 20'	DATE 10-22-04	SHEET NO. 7 OF 8
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